## Claims

1. An interface for remote user input for reading a database, the interface comprising

an automatic question unit operable to determine whether a user is connected via at least one of a voice-based and a text-based capable communication link, and for eliciting input from a user in accordance with said determination;

a speech recognition unit for recognizing a human speech input;

a data recognition unit for recognizing a remote data input; and

a query formulation unit, coupled to said speech and data units, and operable both for formulating a searchable query from a recognized input by at least one of said speech and data recognition units, and for prompting said automatic question unit to elicit further input from the user;

and wherein the interface is associated with a database to search said database using said recognized input.

2. An interface according to claim 1, wherein said speech recognition unit comprises a speech-to-text converter operable to convert a user speech input into query information for said database, and wherein said database comprises text entries.

- 3. An interface according to claim 1, wherein said speech recognition unit comprises a speech-to-phoneme converter operable to convert a user speech input into query information for said database, and wherein said database comprises entries made up of groups of one or more phonemes.
- 4. An interface according to claim 1, wherein said speech recognition unit comprises a combined speech-to-text converter and speech-to-phoneme converter, operable to convert a user input into query information for said database.
- 5. An interface according to claim 1, further comprising a confidence level determiner, associated with said speech recognition unit, said determiner being operable to determine a level of confidence of an output of said speech recognition unit.
- 6. An interface according to claim 1, further comprising an output unit for outputting a search result, wherein said output unit is operable to provide speech and text outputs, and a selector for selecting one of the speech and text outputs based on a user's data receipt ability.
- 7. An interface according to claim 6, wherein the interface is interfaceable to a mobile telephone data facility.

- 8. An interface according to claim 7, wherein said mobile telephone data facility is one of a WEB, WAP, plain text and SMS.
- 9. An interface according to claim 6, wherein the interface is interfaceable to a messaging service.
- 10. An interface according to claim 1, wherein said query formulation unit is operable to submit a recognized speech input as a query to search said database and, in the event of failure to obtain a match in said database, is further operable to prompt said automatic question unit to ask the user to spell said recognized speech input.
- 11. An interface according to claim 10, further comprising associative linkage between associated names for widening searches on the basis of variations of input names.
- 12. An interface according to claim 10, wherein said database is a contact directory having at least one contact point for each of a plurality of searchable database entries.
- 13. An interface according to claim 12, wherein, for any searchable database entry having more than one contact point, a hierarchy of contact point types is provided to define which of said contact points to output first.

- 14. An interface according to claim 12, wherein a contact point is usable as an input to obtain a searchable database entry.
- 15. An interface according to claim 1, wherein said automatic voice question unit is programmable with a plurality of questions as a function of the size of the database.
- 16. An interface according to claim 15, wherein said questions are storable in a hierarchy which corresponds to a predetermined search strategy for the database, and wherein said automatic voice question unit is operable to stop asking questions as soon as sufficient information has been obtained to terminate a database search.
- 17. An interface according to claim 16, wherein the interface is operable to connect a user to a human operator when said hierarchy of questions has ended and a database search has not been terminated.
- 18. An interface according to claim 16, wherein the interface is operable to connect a user to a human operator when a user input is not translatable into information usable for searching said database.

- 19. An interface according to claim 1, further comprising a confidence level determiner, associated with said speech recognition unit, and operable to determine a level of confidence for a recognition instance of said speech recognition unit, said confidence level determiner being further operable to connect a user to a human operator when a user input is associated with a confidence level lower that is less than a predetermined confidence threshold.
- 20. An interface according to claim 12, further comprising a switch for connecting a user to a contact point retrieved from said database.
- 21. An interface according to claim 1, further comprising a data exchange mechanism operable to bring about data interactivity between said database and a remotely located user database.
- 22. An interface according to claim 14, further operable to insert an identification of a caller into a header of a message left by said caller.
- 23. An interface according to claim 14 wherein said contact point is a telephone number.
- 24. An interface according to claim 22, wherein said identification is one of a text string, a photograph, an audio sequence and a video sequence.

- 25. An interface according to claim 1, wherein said database is searchable to retrieve a location, and wherein said retrieved location is superimposable on one of a map, a video and a photograph.
- 26. An interface according to claim 25, further comprising a graphical output unit operable to send said map to said user.
- 27. An interface according to claim 25, wherein said map is in a location system operable to determine a current location of a user, said location system is operable to trace a route from said current location to said retrieved location.
- 28. An interface according to claim 1, wherein said database comprises results fields including one of a text string field, a photograph field and a video sequence field.
- 29. An interface according to claim 1, wherein said question unit comprises a speech output operable to output questions in spoken form to users connected via speech-enabled devices and a text output to output questions in text form to users connected via text-enabled devices.

30. A location system connectable to a location database comprising geographic location data associated with personal identification data usable in search queries to obtain an associated location, comprising:

a positioner for determining a current position of an enquirer, said location system operable to receive said location data from said location database in response to a query involving said personal identification data; and a route determiner for determining a route from said current position to said desired location using said location data.

- 31. A location system according to claim 30, wherein said location database is a directory associating subscriber identification data with subscriber address data.
- 32. A location system according to claim 30, further comprising a graphical output operable to output said route as a route on a map.
- 33. A location system according to claim 32, wherein said graphical output is operable to output said route in real time.
- 34. A location system according to claim 30, further comprising a combined voice and text output operable to determine whether a user is connected via one of voice capable and text capable communication, and

operable to output said route as a sequence of instructions in text and voice format in accordance with said determination.

- 35. A location system according to claim 34, wherein said combined voice and text output is operable to output said sequence of instructions in a preselected language.
- 36. A location system according to claim 35, wherein said sequence in said preselected language is obtainable from a corresponding sequence in a base language by real time automatic translation.
- 37. A location system according to claim 30, wherein said location data comprises map co-ordinates.
- 38. A location system according to claim 30, wherein said personal identification data comprises street address data and wherein said positioner is operable to translate street address data into corresponding map co-ordinates.
- 39. An interfacing method for a remote user input for reading a database, the method comprising:

of a voice-based, a text-based and a combined voice-text capable communication link,

eliciting input from a user via either one of voice-and text based communication according to said connection type;

recognizing one of human speech and data input to said interface;

formulating a searchable query from said recognized input;

eliciting further input from a user unless a query sufficient for searching said database has been formulated;

and searching a database using the sufficient searchable said query.

40. An interfacing method according to claim 39, further comprising: determining whether an ambiguous answer is received from said database, and

if an ambiguous answer is received, then eliciting a further input from a user so as to obtain an unambiguous answer from said database.

41. A method of remotely reading a database via a remote communication device having a communication mode, comprising:

entering a query request via said remote communication device in said communication mode,

sending said query request to a communication interface in said communication mode,

receiving instructions in said communication mode for entering query items to form a database search query,

sending said query items in said communication mode for said interface to form a query for interrogating said database in a database interrogation mode to produce a query result for translation by said interface into said communication mode, and

receiving said result at said remote communication device from said interface in said communication mode.

- 42. A method according to claim 41, wherein said communication mode is a mode of voice communication.
- 43. A method according to claim 41, wherein said communication mode is of text communication mode.
- 44. A method according to claim 41, wherein said database interrogation mode is a text communication mode.
- 45. A method according to claim 42, wherein said database interrogation mode is phonemes communication mode.

